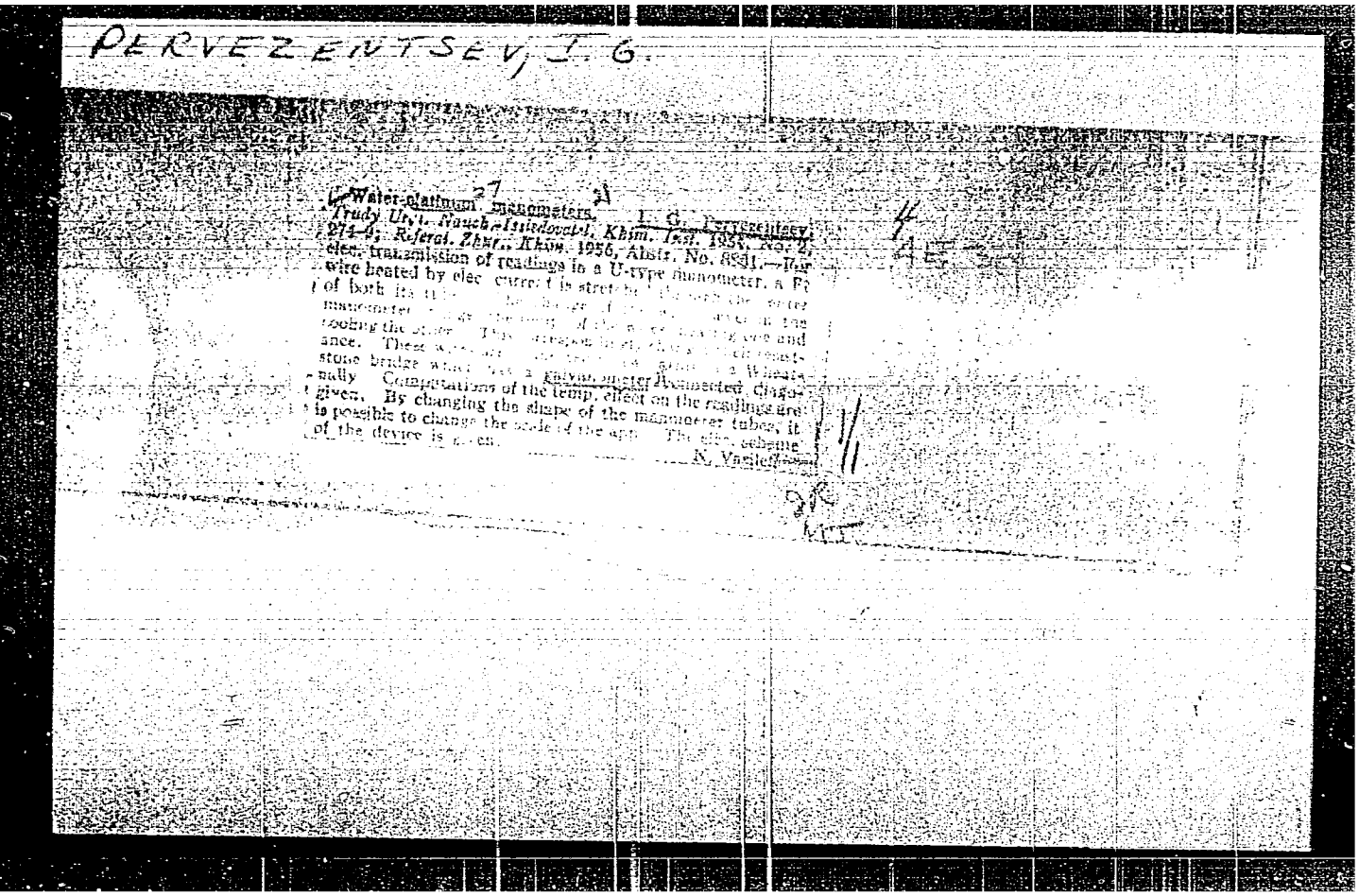
PERVEYEV, YA.; KUDRIASHOVA, N. I.

Magnesium Organic Compounds

Interaction of oxides of the vinylacetylene series with oxygen-containing and organomagnesium compounds. Zhur. ob. khim. 22 no. 9, 1952

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.



PERVEZENTSEV, I. G.

Water-platinum manometers. I. G. Pervezentsev. *Trudy Ural. Nauch.-Issledovatel. Khim. Inst.* 1955, No. 2, 274-9; *Referat. Zhur., Khim.* 1956, Abstr. No. 6931.—For elec. transmission of readings in a U-type manometer, a Pt wire heated by elec. current is stret[ched] ... of both its ... manometer ... reading the ... ance. These ... stone bridge ... nally ... Computations of the temp. effect on the reading are given. By changing the shape of the manometer tubes, it is possible to change the scale of the app. The elec. scheme of the device is given.

N. Vasiliev

PERVIAKOVA, M.

PERVIAKOVA, M., NOVOGRUDSKIY, D. M., BERTSOVA, E.F., and NAKHIMOVSKAYA, M., "The Influence of Bacterization of Flax Seed on the Susceptibility of Seedlings to Infection with Parasitic Fungi," Comptes Rendus (Doklady de l'Academie des Sciences de l'URSS, vol. 14, no. 6, 1937, pp. 385-388. 511 P444

SO: SIRA SI - 90-53, 15 December 1953

PERVIAKOVA, M.

Perviakova, M. [Co-author] See: NOVOGRUDSKII, D. I. "The Influence of Sensibilization of Flax Seed on the Susceptibility of Seedlings to Infection with Parasitic Fungi," 1957.

So: SIRA - Si-90-53, 15 Dec 1953

PERVICKY, J. D.

Cold pressure welding. Jemna mech opt 6 no.11:328-331 N '61.

NURMAND, L.B.; PERV.K, S.G.; PYARNA, R.A. [Pärna, R.]

Distribution of barbiturates in the organism during artificial hypothermia. Farm. i toks. 28 no.5:534-535 S-O '65.
(MIRA 18:12)

1. Kafedra farmakologii (zav. - doktor med.nauk prof. G.Ya. Kingisepp) Tartuskogo gosudarstvennogo universiteta. Submitted May 16, 1964.

PRYAKHINA, L.I.; PERVIKOVA, V.N.; PODYLINA, M.G.

Plotting of phase diagrams for multicomponent metal systems.
Dokl. AN SSSR 154 no.5:1132-1134 F'64. (MIRA 17:2)

1. Institut metallurgii im. A.A. Baykova. Predstavleno akademikom I.V. Tananayevym.

PERVIKOVA, V. V.

PERVIKOVA, V. V.- "Axonometric representations and their Use for the Investigation of Systems having many Components." Min of Higher Education USSR, Moscow Order of Lenin Aviation Inst imeni Sergo Ordzhonikidze, Moscow, 1955 (Dissertations for Degree of Candidate of Technical Sciences)

SO: Knizhnaya Letopis' No. 26, June 1956, Moscow

PERVIKOVA, V.N.; PRYAKHINA, L.I.; PODYLINA, M.G.

Graphing of a phase diagram of the quaternary system in a projection with numerical markings. Zhur. neorg. khim. 10 no.9:2198-2199 S '65.
(MIRA 18:10)

DMITRENKO, G.Ye. [Dmytrenko, H.IU.]; PERVIKOVA, V.N. [Pervikova, V.M.]

Representation of polyhedrons of the composition of multicomponent reciprocal systems. Dop. AN URSR no.4:481-484 '65.

(MIRA 18:5)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti.

PERVIKOVA, V. N.

Call Nr: AF 1108825

Transactions of the Third All-union Mathematical Congress (Cont.)Moscow, Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp.

Card 52/80

PERVIN, V.

Like stepchildren. Sov.profsoiuzy 16 no.5:24-26 Mr '60.
(MIRA 13:3)

(Socialist competition)
(Bogdanovich--Refractories industry)

PARCHUF, L.S.; PERVIN, V.Ye.; SUKHOVA, L.A.

Continuous measurement and control of the weight of 1 m^2 tar paper. Stroi. mat. 9 no.6:11-13 Je '63. (MIRA 17:8)

ACCESSION NR: AR4023356 S/0284/64/000/002/0013/0013

SOURCE: RZh. Voprosy* tekhnicheskogo progressa i organizatsii proizvodstva v mashinostroyenii, Abs. 2.35.69

AUTHOR: Gerasimova, N. V.; Yermolayeva, L. I.; Matyayeva, L. K.; Filippova, T. N.; Pervin, Yu. A.

TITLE: Programming methods for the automation of technological planning

CITED SOURCE: Tr. proyektn., tekhnol., i n.-i. in-ta. Volgo-Vyatsk. sovnarkhoz, vy*p. 2, 1963, 94-111

TOPIC TAGS: automatic programming, technological process, computer-controlled machine tools

TRANSLATION: An algorithm for the automatic planning of technological processes may be divided into two parts. The first incorporates the processing of the geometric information (blueprint data) to determine such features of a part as its shape and design characteristics essential for the technological process. The second part, the actual planning, reflects the production conditions. A program

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ACCESSION NR: AR4023356

for the automatic planning of turning operations during piece-produced and small-series production has been investigated. Data about the surfaces of the part are fed into the memory of an URAL-2 electronic computer. A relatively small proportion of these data, needed in most subroutines, is stored in the operational memory. Data about the special features of the part are coded on magnetic tape (MT); they are retrieved into the operational memory only once during the compilation of the technological charts for the given part. The program for scanning the technological characteristics occupies 306 locations. The program for automatic planning includes the compilation of the following subroutines: the subroutine for path control in the processing of the given part; the auxiliary subroutine for branching to each operation; and subroutines specifying the tool, its geometry and cutting conditions. All these subroutines are recorded and stored on the MT. The subroutines for branching are retrieved from the MT in accordance with the operation code. Each subroutine determining the path control of the tool on the part requires 704 positions. The combined total volume of the program is about 10,000 positions. Using the first part of the algorithm one obtains the path control chart for the given part, and supplementary information for position changes and their parameters. On the basis of retrievals of the subroutines that determine the position changes in accordance with the operation

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ACCESSION NR: AR4023356

code, the operational chart is compiled and recorded on the MT. For parts of average complexity the overall time for compiling the program, including access to the MT, is about 3 minutes. A general block diagram of the program and block diagrams of the individual subroutines are given, together with the structure of the language for the characteristics of the part, and the storage layout. A. Proskuryakov.

DATE ACQ: 06Mar64 SUB CODE: IE, CP ENCL: 00

Card 3/3

16(1) SOV/20-124-1-7/69

AUTHOR: Pervin, Yu.A.

TITLE: On the Algorithmization and Programming of the Game of Dominoes (Ob algoritmizatsii i programmirovanii igry v domino)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 1, pp 31-33 (USSR)

ABSTRACT: Two players play at dominoes against two other players according to the usual rules. The author proposes a programming method which renders possible to replace one, two, three or all the four players by computing machines. The most interesting fact in the problem is the incomplete information concerning the dominoes of the other players. Before putting its domino the computing machine carries out an analysis according to probability theory on the basis of the experiences gathered during the game, in whose hands each single domino might be.

There are 2 references, 1 of which is Soviet, and 1 American.

ASSOCIATION: Issledovatel'skiy fiziko-tekhnicheskiy institut Gor'kovskogo gosudarstvennogo universiteta imeni N.I. Lobachevskogo (Physico-Technical Research Institute of the Gor'kiy State University imeni N.I. Lobachevskiy)

~~Card 1/3~~

Submitted: June 1958

GERASIMOVA, N.V.; YERMOLAYEVA, I.N.; MATYAYEVA, L.K.; FILIPPOVA, T.N.; PERVIN, Yu.A.

Programming for the automation of technological designing. Trudy Proek. tekh. i nauch.-issl. inst. no.2[illegible]4-11 '63 (MIRA [illegible]7)

PERVIN, Yu.A. (Gor'kiy)

Algorithmization and programming of a domino game. Probl. kib. no.3:171-180 '60. (MIRA 13:7)
(Dominoes) (Programming(Electronic computers))

PERVITSKIY, V.V.

The K085 drill twisting and straightening machine. Biul. tekh.-ekon.inform. no.1:34-35 '62. (MIRA 15:2)
(Machine tools)

PERVITSKIY, V.V.

The S-102 mill for rolling drill blanks by sections. Biul. tekh.-ekon.inform. no.8:22-24 '61. (MIRA 14:8)
(Rolling mills)

SVETLICHNYY, V.A., Geroy Sotsialisticheskogo Truda, zven'yevoy;
PERVITSKIY, V.Ya., Geroy Sotsialisticheskogo Truda, zven'yevoy;
BELOUSOV, V.K.

Collective and state farms need such a machine. Zashch.rast.ot vred.i bol. 7 no.6:14 Je '62. (MIRA 15:12)

1. Kubanskiy nauchno-issledovatel'skiy institut ispytaniya traktorov i sel'skokhozyaystvennykh mashin (for Svetlichnyy, Pervitskiy).
2. Glavnyy agronom kolkhoza imeni Lenina, Novo-Kubanskiy rayon, Krasnodarskogo kraya (for Belousov).
(Kuban--Spraying and dusting equipment)

VASIL'CHENKO, A.A.; YERKAYEV, A.D.; KONOVALENKO, L.A.; PERVITSKIY, V.Ya.; BUD'KO, V.A., inzh., red.; TVERDOVSKIY, V.P., kand. sel'khoz. nauk, red.

[Mechanized growing of corn; based on the practices of V.IA.Pervitskii's team] Mekhanizirovannoe vozdelyvanie kukuruzy; na opyte zvena V.IA.Pervitskogo. Moskva, Kolos, 1965. 183 p. (MIRA 18:12)

PERVITSKIY, Vladimir Yakovlevich, Geroy Sotsialisticheskogo Truda, zven'yevoy mekhanizirovannogo zvena kukuruzovodov; BASENKO, P.V., red.; DUKHNO, V.I., tekhn. red.

[Minutes and centners] Minuty i tsentnery. 2. izd. Krasnodar, Krasnodarskoe knizhnoe izd-vo, 1962. 59 p. (MIRA 15:3)
(Kuban--Corn (Maize))
(Kuban--Farm mechanication)

PERVITSKIY, Yu.D.; GEVONDYAN, T.A., doktor tekhn. nauk, prof., retsenzent; DMITRIYEV, F.S., kand. tekhn. nauk, dots., red.; LISITSYN, V.D., kand. tekhn. nauk, dots.

[Design and construction of precision mechanisms] Raschet i konstruirovanie tochnykh mekhanizmov. Moskva, Mashinostroenie, 1965. 547 p. (MIRA 18:7)

PERVITSKIY, Yu. D.

Dissertation: "Research into the Joining of Aluminum Alloys by Cold Plastic Deformation." Cand Tech Sci, Leningrad Shipbuilding Inst, Gorkiy 1953

W-30928

SO: Referativnyy Zhurnal, No. 5, Dec 1953, Moscow, AN USSR ([redacted])

PERVITSKIY, Yu.D., kandidat tekhnicheskikh nauk.

Technological problems in cold pressure welding. [Izd.] LONITOMASH vol.40:135-142 '56. (MLRA 10:4)
(Sheet metal work)

PER

137-58-1-1147

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 154 (USSR)

AUTHOR: Pervitskiy, Yu. D.

TITLE: An Experimental Investigation of the Process of Cold Pressure Welding of Aluminum Alloys (Eksperimental'noye issledovaniye protsessa kholodnoy svarki davleniyem splavov alyuminiya)

PERIODICAL: Izv. Leningr. elektrotekhn. in-ta, 1957, Nr 29, pp 134-149

ABSTRACT: The objects of the investigation were the following: 1) effect of the major procedural factors on joint strength; 2) preferred shapes and dimensions of tools and cold-welding procedures; 3) pressure on tool, and 4) preliminary data on the mean strength of sheet joints. The investigation was made with specimens of the following alloys: A MgA-M, AMtsA-M, DIAM, and A-2 aluminum. The specimens were 30 mm wide, and 1, 1.5 and 2 mm thick; they were 140 mm long. The diameters of the punches (P) were 3.5, 4.2, 5, 6 and 7.2 mm, while the pressure pads were 30 mm in diameter. The specimens were first squeezed by the pressure pads under 3,000 kg pressure, after which the P were applied. The depth of the P impression and the minimum thickness of the weld zone were measured by an in-

Card 1/3

An Experimental Investigation (cont.)

strument with an accuracy of 0.01 mm. Welding was conducted at 14-18°C. The specimens were tested for shear and tensile failure. Continuous and intermittent welds were made on a wheel-welding press, as this permitted the making of strong and tight seams. It was found that the shape of the tool determined the direction and character of flow of the metal in the contact zone, and influenced the formation of the cold-weld joint. In the weld joint it is important to make sure that the pattern of principal stresses will correspond to uneven 3-dimensional compression, as in this case metals are most highly plastic The greatest strength was attained when asymmetrical pressure pads with flat faces were used and with P of low curvature. There should be a hollow chamfer around the P; the volume of the chamfer should not exceed the volume of the metal forced out by the P. The external diameter of the pressure pad should be 4-6 times as large as the diameter of the P. The strength of the joint increases with an increase in the diameter of the P up to a given diameter, and then diminishes. The greatest strength is that attained when depth of penetration is 80-90% of the thickness of the clamped parts. An important factor in terms of strength is the freedom of the surface from contamination. The greatest strength was attained when the peripheral velocity of the brush was 12-15 m/hr. Also, the greatest strength was observed when welding was done not more than 6-8 hours after the surface had been cleaned. Unit pressure

An Experimental Investigation (cont.)

should be held within the 3-5 kg/mm^2 range. Seam welding was used to join square tubes 70x70 mm in cross section and 210 long. It is recommended that the wheel diameters be 50-60 times greater than the thickness of the sheets.

V. P.

1. Aluminum alloys--Welding--Processes

Card 3/3

AUTHOR: Pervitskiy, Yu.D. 119-58-5-9/11

TITLE: Cold Welding With Pressure (Kholodnaya svarka davleniyem)

PERIODICAL: Priborostroyeniye, 1958, Nr 5, pp 26-29 (USSR)

ABSTRACT: Cold welding is of special industrial importance for the building of electric apparatus, as by means of this method it is possible to connect nonferrous metals firmly with non-weldable alloys. The characteristic feature of cold welding consists in the fact that it is attained by a plastic deformation at room temperature. Besides, no recrystallization takes place at the welding seams as the deformation temperature, on account of the good heat conductivity of the metal, is transferred too quickly. The following is to be said on the technology of cold welding by pressure:

1.) The contact surfaces have to be degreased and freed from oxide layers with special care. When removing the oxide layers by means of round steel brushes, the diameter of the steel wires must be 0.3 mm and the disk must perform from 1200 to 1500 revolutions per minute.

2.) Auxiliary devices and stamps for various kinds of welding are shown by illustrations:

Card 1/2

Cold Welding With Pressure 119-58-5-9/11

a) Spot welding on sheet iron or bands
b) Round welding of sheet iron, bands and tubes

3.) The most favorable limits for the various materials, up to which deformation of the material can be forced, are given.
4.) The velocity at which deformation takes place exercises no special influence upon strength.
5.) Abundant material concerning the strength of the welding seams is shown in tables.
6.) Pressures used when welding are between 5 and 25 t and can easily be attained by hand- as well as by hydraulic presses.

There are 8 figures, 2 tables, and 8 references, all of which are Soviet.

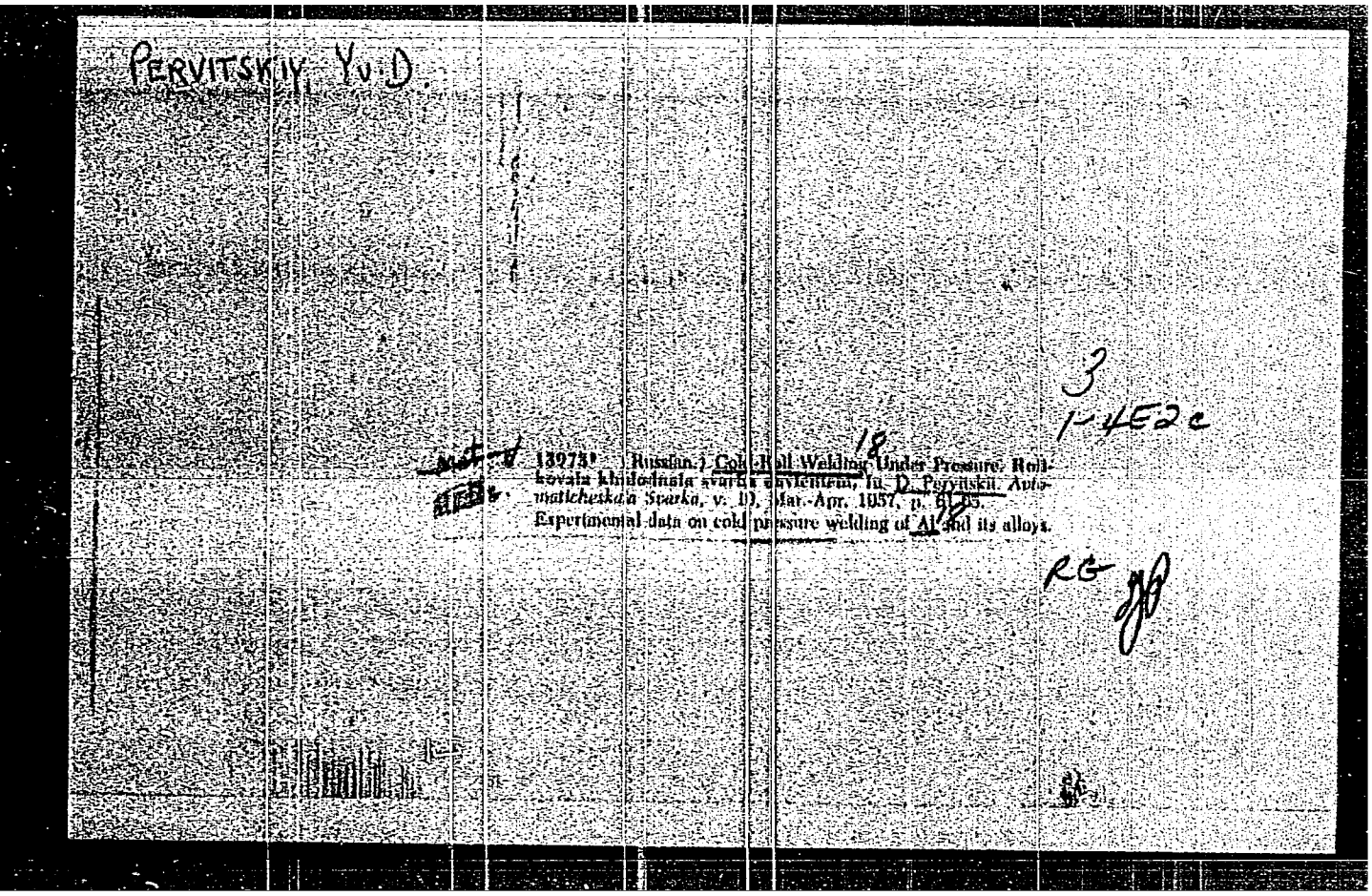
AVAILABLE: Library of Congress

1. Welding--Test methods 2. Welding--Test results 3. Pressure --Applications

Card 2/2

[redacted], Yu.D.

Cold pressure welding. Priborostroenie no.5:26-29 My '58.
(Welding) (MIRA 11:6)



PERVITSKIY, Yu. D.

3
1-KE2c

13973. Russian.) Cold-Roll Welding Under Pressure. Rolikovaia kholodnaia svarka davleniem, Iu. D. Pervitskii. *Avtomaticheskaia Svarka*, v. 10, Mar.-Apr. 1957, p. 81-85.

Experimental data on cold pressure welding of Al and its alloys.

RG

PERVITSKIY, Yu.D.

Cold pressure welding with use of rollers. Avtom. svar. 10 no.2:61-65 Mr-Ap '57. (MLRA 10:6)

1. Leningradskiy elektrotekhnicheskiy institut im. V.I. Ul'yanova.
(Metals--Cold working) (Deformations (Mechanics))

PERVOIC, B.

Organization of production space in plywood factories.
III. P. 1992. TEHNIKA. Beograd, Yugoslavia.

SOURCE: East European Accessions List, (EEAL) Library of Congress, Vol. 5, No. 8, August, 1956.

PERVOKHINA, N. V.

Inflorescence: Botany-Morphology

Pecularities of the structure of the germ and fruit of umbela., Dokl. AN SSSR, 81, no. 4, 1951.

Monthly List of Russian Accessions, Library of Congress, May 1952. UNCLASSIFIED

PROCESSES AND PROPERTIES INDEX

BC

a-2

(A) Formation of sludge in Lake Moinaki. J. V. [illegible]. (B) [illegible] analysis of sludge deposits. [illegible] and A. I. [illegible]. (C) [illegible] conditions of sludge formation. J. V. [illegible] (Trudi Balneol. Lab., 1937, No. 14, [illegible], 97—104, 105—119).—(A) Biological conditions are described.

(B) Methods of microscopical examination of mud profiles are described.

(C) Algae develop in salt lake H_2O of a salt content corresponding with $d < 1·14$, and can enter into the composition of the sludge on condition of periodic overlaying with inorg. detritus. R. T.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

PERVOL'F, YU. V.

Silts and Conditions for Their Formation in the Salt Lakes of the Crimea

The author studies the microzones of the silt core samples in length from 20-22 cm to 45-51 cm in the Moynaksk Lake and from 30 cm to 100 cm in the Saksk Lake. In the composition of the microzones of the Saksk and Kyrksk Lakes are contained products of erosion of coastal rocks (calcite, zuartz), and organic detritus. Silt of Lake Moynaksk contains clayey microzones and massive accumulation of products of the vital activity of crayfish. In the lakes of the channel group the author notes, in connection with the precipitation of the biological factor, the alternation of only saline and clayey microzones. In the greater part of Sivash the microzonal structure of the silts is absent, which leads one to the conclusion of their displacement as a result of the strong action of the wind. (RZhGeol, No. 5, 1955) Tr. Labor. Ozerovedeniya AN SSSR, 2, 1953, 154-228.

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

PERVOL'F, Yu.V.

Slimes and conditions of their formation in salt-water lakes of Crimea. Trudy Lab.ozeroved. 2:154-228 '53. (MLRA 7:9)
(Crimea--Lakes) (Lakes--Crimea)

PERVOMAYSKIY, B. Ya.

"Speech Incoherence During the Manic Phase of Manic-Depressive Psychosis From the Position of the Doctrine of the Interrelationships Between the Signal Systems." Cand Med Sci, Leningrad Inst for the Advanced Training of Physicians, Leningrad, 1954. (RZhBiol, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

PERVOMAYSKIY, B. Ya.

K Voprosu o Metodike issledovaniya Rechevykh Reaktsiy v Psikhiatricheskoy Klinike.

O Nekotorykh Narusheniyakh Myshleniya i Rechi u Psikhicheski Bol'nykh.

Psikhiatricheskaya klinika i problemy patologii vysshey nervnoy deyatel'nosti. Sbornik trudov Kafedry psikhiatrii., Leningrad. 1957. vol. 2.
resp. ed. I. F. SLUCHEVSKIY.
Chair of Psychiatry.
Leningrad State Inst. Advanced Training of Physicians.

PERVOMAYSKIY, B.Ya., Doc Med Sci -- (diss) "Maniac phase of ~~the~~ maniac-depressive psychosis and ~~maniacal~~ manic syndromes of other etiology.(Clinic and pathogenesis of ~~Maniacal~~ manic states)." Len, 1959, 17 pp (State Order of Lenin Inst for the Advanced Training of Physicians im S.M. Kirov) (KL, 36-59, 118)

PERVOMAYSKIY, B.Ya.

One of the frequent causes of neuroses in children. Pediatriia 39 no.1:29-34 '61. (MIRA 14:1)

1. Iz kafedry psikhiatrii (zav. - dotsent B.Ya. Pervomayskiy) Luganskogo meditsinskogo instituta (dir. - prof. Ye.I. Pal'chevskiy).

(NEUROSES) (SLEEP)

PERVOMAYSKIY, B.Ya.

Clinical aspects of an inert form of neurasthenia.
Sov. Med. 26 no.9:105-108 S '62. (MIRA 17:4)

1. Iz kafedry psikhiatrii (zav. - doktor med. nauk B.Ya. Pervomayskiy) Luganskogo meditsinskogo instituta (dir. - dotsent F.D. Povelitsa).

PERVOMAYSKIY, B.Ya., doktor med.nauk

Hyposthenic form of neurasthenia and exhaustion psychosis. (MIRA 15:5)
Sov.med. no.3:95-99 '62.

1. Iz kafedry psikhatrii (zav. - doktor med.nauk B.Ya. Pervomayskiy) Luganskogo meditsinskogo instituta (rektor - dotsent F.D. Povelitsa).
(NEURASTHENIA) (PSYCHOSES)

PERVOMAYSKIY, B. Ya., prof.

Clinical variations in psychasthenia and [illegible] basis. Sov. med. 27 no.11:140-145 N '63 (MIRA 17:1)

1. Iz kafedry psikhiatrii (zav. - prof. B. Ya. Pervomayskiy) Luganskogo meditsinskogo instituta.

DOTSENKO, Stepan Nikolayevich; PERVOMAYSKIY, Boris Yakovlevich; SHVAREV, A.I., red.

[Neuroses; their clinical aspects and treatment] Nevrozy; klinika i lechenie. Leningrad, Izd-vo "Meditsina," 1964. 185 p. (MIRA 17:5)

MARKOVA, Ye.N., otv. red.; AVERBUKH, Ye.S., red.; BLINOV, N.I., red.; BONDAREV, N.I., red.; BORZUNOVA, A.S., red.; ZENEVICH, G.V., red.; MNUKHIN, S.S., red.; MYASISHCHEV, V.N., red.; PERVOMAYSKIY, B.Ya., red.; POVORINSKIY, Yu.A., red.; POLIKARPOV, S.N., red.; SIBIRKIN, N.V., red.; FEDOTOV, D.D., red.; CHISTOVICH, A.S., red.; ZACHEPITSKIY, R.A., red.

[Problems of psychiatry; anniversary collection of articles dedicated to the 60th birthday of Professor Izmail Fedorovich Sluchevskii] Problemy psikhiatrii; iubileinyi sbornik, posviashchennyi 60-letiiu so dnia rozhdeniia professora Izmaila Fedorovicha Sluchevskogo. Leningrad, Meditsina, 1964. 434 p. (MIRA 17:12)

PERVOMAYSKIY, G.S.; TUMKA, A.F.

Scientific Sessions of the Leningrad Parasitilogical Society in 1962. Med. paraz. i paraz. bol. 32 no.5:634-635 S-O'63 (MIRA 16:12)

PERVOMAYSKIY, G. S.

"Concerning the Spread of Parasites of Pasture Ticks at the Site of Tick Encephalitis," Priroda 36 (11): 75-78, 1947

NIH - Full tranlsation [redacted] AVAILABLE

PE[illegible], [illegible]. S.

3 [illegible]
Apr. 1[illegible], [illegible] Prirod[illegible], [illegible]

SO: Letopis' Zhurnal'[illegible], Vol. [illegible], [illegible], 19[illegible]

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240130005-5"

PERVOMAYSKIY, G. S.

"Parthenogenesis of Ticks of the Family Ixodidae"

From Chair of General Biology and Parasitology imeni Ye. N. Pavlovskiy, (Head, Acad. Gen. Lt. Med. Corps, Ye. N. Pavlovskiy), Military Medical Academy imeni S. M. Kirov.

Zool. Zhur., 28, No. 6, 1949

PERVOMAYSKIY, G. S.

USSR/Medicine -- Heredity, Mechanism Jan 49
Medicine -- Rabbits

"The Possibility of Altering Several Hereditary Characteristics of a Rabbit by Action Upon the Some of the Parents," Acad Ye. N. Pavlovskiy, G. S. Pervomayskiy, Mil Med Acad imeni S. M. Kirov, Leningrad, 3 pp

"Dok Ak Nauk SSSR" Vol LXIV, No 2

From experimental data, concludes that the positive action of Ixodidae ticks' saliva causes variations in exchange of substances in the organism. This influences the heredity of a rabbit, appearing in his descendant as changes in the wool in the very same section of the coat changed in the parent rabbit. Submitted 29 Nov 48.

25/49T41

PA 25/49T41

PERVOMAYSKIY, G. S. ; CHAGIN, K. P.

Ye. N. Pavlovskiy and the Theory of the Natural Focality of Transmissive and Parasitic Diseases

PRIRODA, 1950, 6, 42-51

PEROMAYSKIY, G. S.

USSR/Medicine - Relapsing Fever Animals, Experimental 1 Jun 50

"Experimental Data on the Central Asia Type of Tick-Borne Relapsing Fever," Acad E. N. Pavlovskiy, G. S. Peromayskiy, K. P. Chagin

"Dok Ak Nauk SSSR" Vol LXXII, No 4, pp 813-816

Investigated interuterine infection of fetuses of guinea pigs by subject fever when mothers were infected at different periods of pregnancy. Checked newborn guinea pigs for first 10 days of life for spirochetes, and blood of stillborn guinea pigs or those which died shortly after birth. When pregnant guinea pigs were infected within a period less than the incubation period of spirochetes before birth of young guinea pigs from immunized mothers were not infected by homological strains of spirochetes before birth or for first few days of life but soon lost their resistance. Both mothers and fetuses could be infected by heterological strains. Demonstrated subject spirochetes were not transmitted by mother's milk to the young. Discusses bearing on human infection with this type of disease and human interuterine infection with this type of disease and human interuterine infection with spirochetes in general. Submitted 7 Apr 50

PA 165T13

FDD

RACHINSKIY, F.Yu.; PERVOMAYSKIY, G.S.; CHAGIN, K.P.

Dimethylphthalate as gnat repellent. Zool.zhurnal 30 no.1:69-72 1951. (CLML 20:5)

1. Of the Department of General Biology and Parasitology imeni Academician Ye.N.Pavlovskiy (Head--Ye.N.Pavlovskiy, Lieutenant General, Medical Corps) and of the Department of Inorganic Chemistry (Head--F.Yu.Rachinskiy, Engineer Lt-Col) of the Military Medical Academy imeni S.M.Kirov.

PERVOMAYSKIY G S

OISUF YEV, N.G.

"Variability of meadow ticks." G.S. Pervomaiskii. Reviewed by N.G. Olsuf'ev. Zool.zhur. 32 no.3:565-567 My-Je '53. (MLRA 6:6)
(Ticks) (Pervomaiskiy, G.S.)

The Presidium of Acad. Sci. USSR has awarded the author of this book the I. I. Mechnikov first prize for the year 1952.

PERVOMAYSKIY, G.S.

PAVLOVSKIY, Ye.N., akademik; PERVOMAYSKIY, G.S.; CHAGIN, K.P.

Intensity of feeding of one and at the same time of two species of pasture ticks (Ixodidae) on rabbits. Zool.zhur. 33 no.3:497-506 My-Je '54. (MLRA 7:7)

1. Kafedra obshchey biologii i parazitologii im. akad. Ye.N.Pavlovskogo Voyenno-meditsinskoy akademii im. S.M.Kirova.
(Parasites--Rabbits) (Ticks)

PERVOMAYSKIY, G. S.

Inheritance of changes in the fur in rabbits. E. N. Pavlovski and G. S. Pervomaiski (*C. R. Acad. Sci. U.R.S.S.*, 1954, 95, 653—656). —Changes in fur colour in a patch on the back were provoked in female rabbits by feeding ticks (*Hyalomma* and *Rhipicephalus* spp.) on them. In 5 of 10 offspring of such rabbits similar changes were found. In 20 females, changes were provoked by denervating a patch of skin. In one out of 110 offspring, a very obvious corresponding patch of alteration was found (colour photograph reproduced). G. S. Bundley.

PAVLOVSKIY, Ye.N., general-leytenant meditsinskoy sluzhby, akademik; NIZOVKIN, V.K., dotsent; PERVOMAYSKIY, G.S., polkovnik meditsinskoy sluzhby; BUKHMAN, L.B.; GLUSHKEV, V.V.

New repellent ointment. Voen.-med.zhur. no.7:46-49 Jl '56. (MLRA 9:11)
(INSECT BAITS AND REPELLENTS)

PERVOMAYSKIY, G.S.; CHAGI , K.P.; BOLDYREV, S.T.

On the mass reproduction and habitation of the ticks Ornithodorus talaje Guerin-Meneville, 1849 [with English summary in insert]. Zool.zhur. 35 no.9:1303-1311 S '56. (MLRA 9:12)

1. Kafedra obshchey biologii i parazitologii Voyenno-meditsinskoy akademii imeni S.M.Kirova.
(Soviet Central Asia--Ticks) (Parasites--Water birds)

PERVOMAYSKIY, G. S.

USSR/Zooparasitology - Acarina and Insect-Vectors of Disease Pathogens. G-4

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10105

Author : Pervomayskiy, G.S., Chagin, K.P., Boldyrev, S.T.
Inst :
Title : Detection of New Breeding Foci of Ticks Ornithodorus talaje Guerin-Meneville, 1849, in USSR.

Orig Pub : Dokl. AN SSSR, 1956, 109, No 1, 238-240

Abstract : In bird-colony nests of cormorants (Phalaerocorax carbo), sea-gulls (Larus ichtyaetus), and pelicans, ticks were found in masses and identified as O. talaje on two desert islands of a large lake in middle Asia. Numerous deposits of eggs, males, females and nymphs of these ticks (up to 1500-8000 items) were located in the middle fairly humid layer of the nest. From 5 to 1000 specimens of larvae were found on chicks of sea-gulls and cormorants. Ticks and their deposits were also found under stones on the ground.

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PERVOMAYSKIY, G.S.; CHAGIN, K.P.; DYATLOV, A.G.

Materials on the biology of Ornithodorus coniceps Can. (Acarina, Ixodoidea) [with summary in English]. Ent.oboz. 37 no.4:889-895 '58. (MIRA 11:12)
(Ticks) (Parasites--Water birds)

PERVOMAYSKIY, G.S., prof., polkovnik meditsinskoy sluzhby; PODOLYAN, V.Ya., prof., polkovnik meditsinskoy sluzhby

Evgenii Nikanorovich Pavlovskii; in celebration of his 75th birthday and 50 years of scientific activities. Voen. med. zhur. no.4:6-11 Ap '59. (MIRA 12:8)

(BIOGRAPHIES, Pavlovskii, Evgenii N. (Rus))

PAVLOVSKIY, Ye.N., akademik; SMIRNOV, G.G., prof.; GUTSEVICH, A.V., prof.; PERVOMAYSKIY, G.S., prof.; PODOLYAN, V.Ya., prof.

V.G. Gnezdilov; an obituary. Med.paraz.bolezn. 23 no.1:126-127 Ja-F '59. (MIRA 12:3)
(GNEZDILOV, VLADIMIR GEORGIEVICH, 1898-1958)

PERVOMAYSKIY, G.S.; TUMKA, A.F.

Meetings of the Leningrad Parasitological Society in 1958. Med.paraz. i paraz.bol. 28 no.4:505-506 Jl-Ag '59. (MIRA 12:12)
(LENINGRAD--PARASITOLOGICAL SOCIETIES)

PERVOMAYSKIY, G.S.; MAKLYGIN, M.V.

Attacking activity of the tick Hyalomma asiaticum asiaticum P.Sch. et E.Schl. under laboratory conditions. Zool.zhur. 38 no.3:394-400 Mr '59. (MIRA 12:4)

1. S.M.Kirov Military Medical Academy (Leningrad).
(Ticks)

17(2)

S/026/60/000/02/006/052
D031/D002

AUTHORS: Pervomayskiy, G.S., Professor, and Podolyan, V.Ya., Professor

TITLE: Natural Foci of Infection, A Victory Over Some Dangerous Diseases of Man and Animals.

PERIODICAL: Priroda, 1960, Nr 2, pp 33-38 (USSR)

ABSTRACT: The article deals with the science of natural foci of infection of human diseases, considered to be one of the outstanding achievements of Soviet biology and medicine. It was first expounded in 1938 by Academician Ye.N. Pavlovskiy. Later on it was continuously enriched by new data and received wide recognition not only in the Soviet Union, but also abroad. It required years of tedious studies of the geographic spreading of bloodsucking, arthropodic disease carriers and stimuli of infections, of biological research, oecology, the carriers' alimentary connections

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D031/D002

Natural Foci of Infection. A Victory Over Some Dangerous Diseases of Man and Animals.

and of ascertaining the possible infection and transmission means of the contagious elements. "Mysterious" illnesses among the population of separate territories in the form of single cases or considerable outbreaks were known long ago, but no diagnosis could be set for them. As an example, the author mentions the Pendinskiy ulcer which affected all who for the first time came into contact with the endemic foci. He also refers to mass epidemics and emphasizes the great and generally recognized merit of Academician Ye.N. Pavlovskiy who organized over 200 expeditions. Their activity encompassed Central Asia, Transcaucasia, the Far East, Trans-Baykal Region, Siberia, the central and north-west regions of the RSFSR, the Crimea and

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Natural Foci of Infection. A Victory Over Some Dangerous Diseases of Man and Animals.

Transcarpathia. Collaborators of the Military-Medical Academy imeni S.M. Kirov, the Akademiya meditsinskikh nauk SSSR (Academy of Medical Sciences of the USSR), the Zoologicheskiy institut Akademii nauk SSSR (Institute of Zoology of the USSR Academy of Sciences) and workers of local medical establishments participated in these expeditions. The author explains what served as a basis for the teaching of the natural foci of transmissible and parasitic diseases. They constitute an area (desert, semi-desert, steppe, taiga) on which, under the influence of favorable factors of the outer surroundings, unusual interrelations established themselves evolutionary between the stimulus of the disease, the donor-animals and the recipients of the exciter and the carrier. The carriers, feeding on the blood of the

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infected wild animals, receive the stimulus and pass it on to the fresh recipient during the subsequent blood--sucking process. The author describes how the infection of man becomes possible provided the pathogenic agent is introduced in a virulent state and in a dose which is sufficient for a development of the disease. The population permanently living in the foci of transmissive diseases acquires, apparently, an immunity. Ye. N. Pavlovskiy's teaching on the natural foci of infection is thoroughly founded and can be fully applied to the scientific and practical problems of public health. The author illustrates its significance by several examples. Dealing with spirochaete carriers and their transmitters, the author states that the spirochaete-

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bearing wild animals infect ticks of the ornithodoros genus. Having thus become spirochaete carriers, these ticks infect the same animals with spirochaetosis. The spirochaete circulation between the wild animals and ticks ensures a long existence of the foci of relapsing typhoid in desert and semi-desert territories of the dry tropics even if there are no humans or domestic animals. The author explains how man and domestic animals become infected with spirochaetes through ticks and how this leads to the origin of relapsing typhoid. Prophylactic measures will, however, protect man against infection. Pavlovskiy's assumption of the existence of typhus fever caused by ticks in the USSR has proved to be true. The ticktransmitters introduce rickettsia into man's blood with their saliva. Special means have been developed for the prophylaxis and treatment of this di-

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D051/D002

Natural Foci of Infection. A Victory Over Some Dangerous Diseases of Man and Animals.

sease for which the natural foci have been discovered in Siberia, Transbaikal region, the Far East and in Kazakhstan. Encephalitis caused by ticks was not investigated until a special expedition left for the foci of the disease in the Far East. It was led by Professor L.A. Zil'ber in 1937. The second expedition was headed by Ye. N. Pavlovskiy in 1938 and led to the discovery that ticks are the basic source of spreading encephalitis infection. The article contains particulars on the investigations carried out by Ye. N. Pavlovskiy, who arrived at the conclusion that man can infect himself not only through the bites of ixodic ticks but also through foodstuffs. The teaching of the natural foci of tick encephalitis served as a basis for developing effective measures of combatting ticks which together

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Natural Foci of Infection. A Victory Over Some Dangerous Diseases of Man and Animals.

with seroprophylaxis and vaccination ensure a reliable antiepidemic effect. Ye. N. Pavlovskiy's collaborators also carried out special investigations in the Turkmenian deserts and ascertained the basic epidemiologic peculiarities of the Pendinskiy ulcer from which almost the entire population of the Central Asian oasises were suffering. The discovery of the natural foci of infection made it possible to place the combatting of this disease on a scientific basis. In addition to diseases caused by the ultravirus and rickettsia, the teaching of the natural foci of infection also involves several infections of a bacterial nature: plague, tularemia and listerellosis. The basic carriers of the plague pathogenic agent at its natural foci are the desert and steppe rodents. Fleas - the parasites of rodents - are

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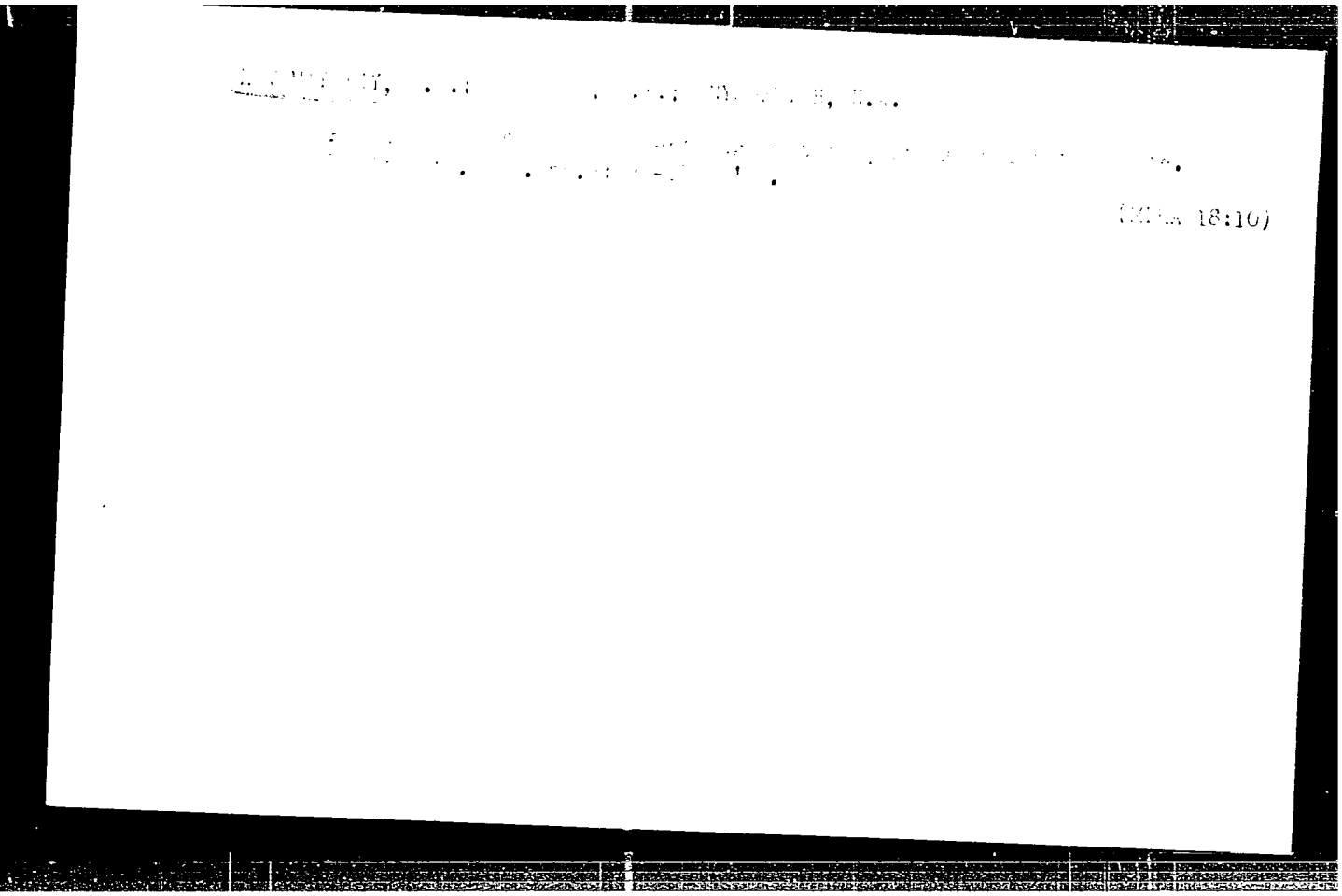
infected by them and in their stomach plague microbes live 3 to 4 months and longer. Soviet researchers have also thoroughly studied the natural foci of infection with tularemia - a disease spread through infected water, foodstuffs, infected rodents, through the air and by transmitters. Natural foci of infection are also inherent to listerellosis. The exchange of listerella in natural foci takes place between the rodents and ixodic ticks. Foci of listerellosis are known where the carriers of the stimulus and the basic source of man's infection were domestic animals. The examples quoted are by far not an exhaustive list of diseases with natural foci of infection, and it is to be expected that with the assimilation of new territories and the analysis of various forms of



PERVOMAYSKIY, G.S.; TUMKA, A.F.

Work of the Leningrad Parasitological Society in 1964.
Med. paraz. i paraz.bol. 34 no.4:498-499 Jl-Ag '65.
(MIRA 18:12)

L 44275-66 EWT(1)/T LJP(c) CC

ACC NR: AR6011855 SOURCE CODE: UR/0299/65/000/020/A004/A004

AUTHOR: Pervomayskiy, G. S.; Varonovskiy, Ya. M.; Shcherbina, V. P. 69 64 12

TITLE: Infrared ray method of investigating live subjects 21

SOURCE: Ref. zh. Biologiya, Abs. 20A41

REF SOURCE: Dokl. na 16-tom i 17-tom Yezhegodn. chteniyakh pamyati N.A. Kholodkovskogo, 1963-1964, M.-L., Nauka, 1965, 50-65

TOPIC TAGS: laboratory optic instrument, IR microscope, electron optics, animal physiology, behavior pattern

ABSTRACT: An electronic optical apparatus (EOP) consisting of an infrared irradiation source, viewing device, and a power unit is described. The viewing device represents a binocular image converter tube (EOP) in the form of a telescope joined to a frontal catch by a hinged joint. The power unit consists of a power source (STs-25 storage battery), high voltage unit, and an infrared illuminator. The apparatus can operate on a self contained power source or on an AC line of 127 and 220 volts. An electronic optical device for infrared stereoscopic microscopy improved by the authors was used for higher magnification. 25B

Card 1/2 UDC: 542.98

Card 2/2 mjs

PERVOMAYSKIY, G.S.; VARSHAVSKIY, Ya.[illegible]; SHCHERBINA, V.[illegible]

Use of infrared rays in stereoscopic microscopy. [illegible]
no.7:1075-1078 '65.

[illegible] Voyenno-meditsinskaya akademiya imeni Kirova, Leningrad.

PERVOMAYSKIY, G.S.; TUMKA, A.F.

Scientific meetings of the Leningrad Parasitological Society in 1963. Med.paraz. i paraz.bol. 33 no.3:380-381 My-Je '64. (MIRA 18:2)

PERVOMAYSKIY, G.S.; DUMKA, A.F.

On the 80th birthday of Academician Evgenii Nikanorovich Pavlovskii. Zhur.mikrobiol.,epid. i immun. 41 no.[illegible] My '64.

(MIRA 18:2)

1. Voyenno-meditsinskaya ordena Lenina akademiya imeni Kirova.

SMIRNOV, Grigoriy Grigor'yevich; PERVOMAYSKIY, G.S., red.; GULYAYEVA, T.S. tekhn.red.

[Helminths are injurious to health] Glisty vrediat zdorov'iu. [Leningrad] Gos.izd-vo med.lit-ry Medgiz, Leningr.otd-nie, 1960. 29 p. (MIRA 14:3)
(Worms, Intestinal and parasitic)

SMIRNOV, Grigoriy Grigor'yevich; PERVOMAYSKIY, G.S., red.; GULYAYEVA, T.S., tekhn.red.

[Helminths are injurious to health] Gllsty vrediat zdorov'iu. Leningrad, Gos.izd-vo med.lit-ry Medgiz, Leningr.otd-nie, 1960. 29 p. (MIRA 14:3)
(WORMS, INTESTINAL AND PARASITIC)

PERVOMAYSKIY, G.S.; SHUSTROV, A.K.

Apparatus for the study of repellents for ixodid ticks. Lab. delo 6 no.3:52-53 My-Je '60. (MIRA 13:7)

1. Kafedra obshchey biologii i parazitologii imeni Ye.N. Pavlovskogo Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.
(INSECT BAITS AND REPELLENTS)
(BIOLOGICAL LABORATORIES--APPARATUS AND SUPPLIES)

ALFEYEV, N.I.; BREGETOVA, N.G.; GNEZDILOV, V.G. [deceased]; GUTSEVICH, A.V.; KOSTYLEV, N.N.; NIKOLAYEV, B.P.; OLSUF'YEV, N.G.; PAVLOVSKIY, Yevgeniy Nikanorovich, akademik; PERVOMAYSKIY, G.S.; PERFIL'YEV, P.P.; POMERANTSEV, B.I.[deceased]; SALYAYEV, V.A.; SKVORTSOV, B.P.; SMIRNOV, G.G.; TERAVSKIY, I.K.; BLAGOVESHCHENSKIY, D.I., doktor, red.; RULEVA, M.S., tekhn.red.

[Laboratory manual on medical parasitology] Laboratornyi praktikum meditsinskoi parazitologii. Pod red. E.N.Pavlovskogo. Leningrad, Gos.izd-vo med.lit-ry, Leningr.otd-nie, 1959. 486 p. (MIRA 12:9)

(MEDICAL PARASITOLOGY)

CHISTYAKOV, Aleksandr Fedorovich; PERVOMAYSKIY, G.S., red.; SHEVCHENKO, F.Ya., tekhn.red.

[Rat mite (Ornithonyssus bacoti) and dermatitis in human beings] Krysinyi kleshch i dermatity u liudei. Leningrad, Gos.izd-vo med. lit-ry Medgiz, Leningr.otd-nie, 1960. 93 p. (MIRA 13:11)

(RAT MITE) (SKIN--DISEASES)

PERVOMAYSKIY, P. G.

Organizatsiia remontnogo khoziaistva na machinostroitel'nykh predpriiatiiakh. Moskva, Mashgiz, 1945. 147 p. illus.

Organization of repair shops in machine-building plants.

DLC: TJ153. P4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

PERVOMAYSKIY, I. G.

Organization of maintenance and repair in machine construction factories. Moskva, Gos. nauch.-tekhn. izd-vo mashinostroit. lit-ry, 1946. 147 p. (50-16568)

TJ153.14

B

USSR / General Biology. Genetics. Animal Genetics.

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 14455

Author : Pavlovskiy, Ye. N.; Pervomyskiy, G. S.; Mraz, I. I.

Inst : Academy of Sciences USSR

Title : The Parallels in the Processes of Experimental Influence Upon Partial Change of Some Features in Rabbits and Hens

Orig Pub : V. sb.: Probl. fiziol. tsentr. nervn. sistemy, M.-L., AN SSSR, 1957, 420-425

Abstract : After mites have fed upon the hair which grows on the sheared section of the back of a rabbit, the new hair of it changes to a different color and density. Two experimental females gave birth to one rabbit each, in whom a "rectangular section with shorter hair on the

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[illegible] of
[illegible]ring. In one
[illegible] experimental
[illegible]ular section with shorter and
[illegible] hair could be distinguished", and
[illegible] of her other rabbits had different
sections of hair on their backs. The females
of the first generation which inherited the
change in cover were inbred with analogous
males". In the offspring of the second
generation "sections on the back were covered
with hair which was much thicker and of a
darker color than on the adjacent sections
of the skin. The location of these sections

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B

USSR / General Biology. Genetics. Animal Genetics.

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 14455

exactly corresponded to the position of the rumen feeding the mites in the original pair of rabbits". In the third generation changes of hair were not observed. In order to explain the mechanism of heredity, an experiment was carried out in which a skin section was denervated and in one of the young rabbits

USSR / General Biology. Genetics. Animal Genetics. B

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 14455

ideas on the problem of heredity of acquired properties, a number of viewpoints is expressed in relation to the salivary effect of black-legged ticks on the sex cells of the female rabbit and the transfusion of egg albumen in hens on hereditary indices in their offspring. -- V. P. Yefroimson

Card 4/4

PERVOZVANSKIY, V.V.

Further on the use of trigonometric leveling. Geod. i kart. no.1: 17-19 Ja '64. (MIRA 17:9)

PERVOV, A.

Protection from bursitis. Okhr.truda i sots.strakh. 5
no.10:40 O '62. (MIRA 15:11)

1. Zaveduyushchiy laboratoriyey Ivanovskogo instituta okhrany truda Vsesoyuznogo tsentral'nogo soveta professional'nykh soyuzov.
(Clothing, Protective)

PERVOV, A.

According to the demands of life. Voen. znan. 42 no.1:30-32 Ja '66. (MIRA 19:1)

1. Zaveduyushchiy otdelom Permskogo oblastnogo komiteta Kommunisticheskoy partii Sovetskogo Soyuza.

PERVOV, A.

Two-stage filter for air purification. [illegible] stroit. 4 no.9:4[illegible]-4[illegible] S '61. (MIRA 14:10)

1. Zaveduyushchiy laboratoriyey Ivanovskogo instituta okhrany truda Vsesoyuznogo tsentral'nogo soveta professional'nykh soyuzov.

(Exhaust systems)

PERVOV, A.

To modernize means to improve. Okhr. truda i sots. strakh. 3 no.9:17-20 S '60. (MIRA 14:4)

1. Zaveduyushchiy laboratoriyey Ivanovskogo instituta okhrany truda Vsesoyuznogo tsentral'nogo soveta professional'nykh soyuzov.
(Ivanovo Province—Textile industry—Safety measures)

PERVOV, A.F.

Work conditions of women weavers. Tekst. prom. 22 no.7:11-13 Jl '62. (MIRA 17:1)

1. Laboratoriya Ivanovskogo instituta okhrany truda Vsesoyuznogo tsentral'nogo soveta professional'nykh soyuzov.

PERVOV, A. F.

Automatic cleaning of the card clothing. Tekst. prom. 23 no.3:40-42 Mr '63. (MIRA 16:4)

1. Zaveduyushchiy laboratoriyey Ivanovskogo instituta okhrany truda.

(Carding machines—Cleaning)

PERVOV, A.F.

Standard study room for teaching industrial safety. Tekst.prom. 22 no.9:95 S '62. (MIRA 15:9)

1. Zaveduyushchiy laboratoriyey Ivanovskogo instituta okhrany truda.
(Ivanovo (Ivanovo Province)--Safety education, Industrial)

SOV/14-57-12-25483

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 12, p 17 (USSR)

AUTHOR: Pervov, A. V.

TITLE: Preventing Soil Erosion in the Stavropol'skiy Kray. (Eroziya pochv v Stavropol'skom krayе i mery bor'by s neyu)

PERIODICAL: Byul. nauchno-tekhn. inform. Stavrop. n.-i. in-ta s. kh., 1956, Nr 1-2, pp 26-29

ABSTRACT: Intensified plowing (even on valley slopes) and cutting down of forests have considerably increased erosion in the Stavropol'skiy Kray. There are more than 180 000 hectares of eroded soils in the area. Such soils constitute 23.2 percent of the Kislovodsk Rayon, 7.8 percent of the Yessentuki Rayon, and 6.3 percent of the Voroshilovskiy Rayon. During the last five years, more than 37 000 hectares of arable land

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